

# Kockum 442 B



# Kockum 442 B

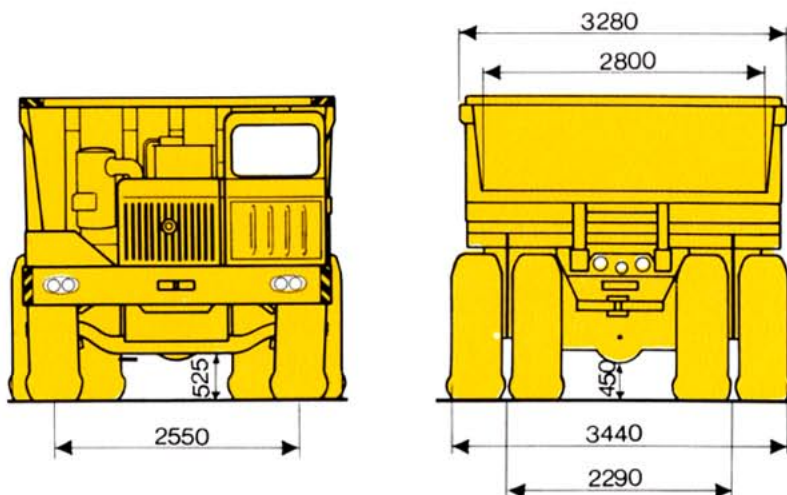
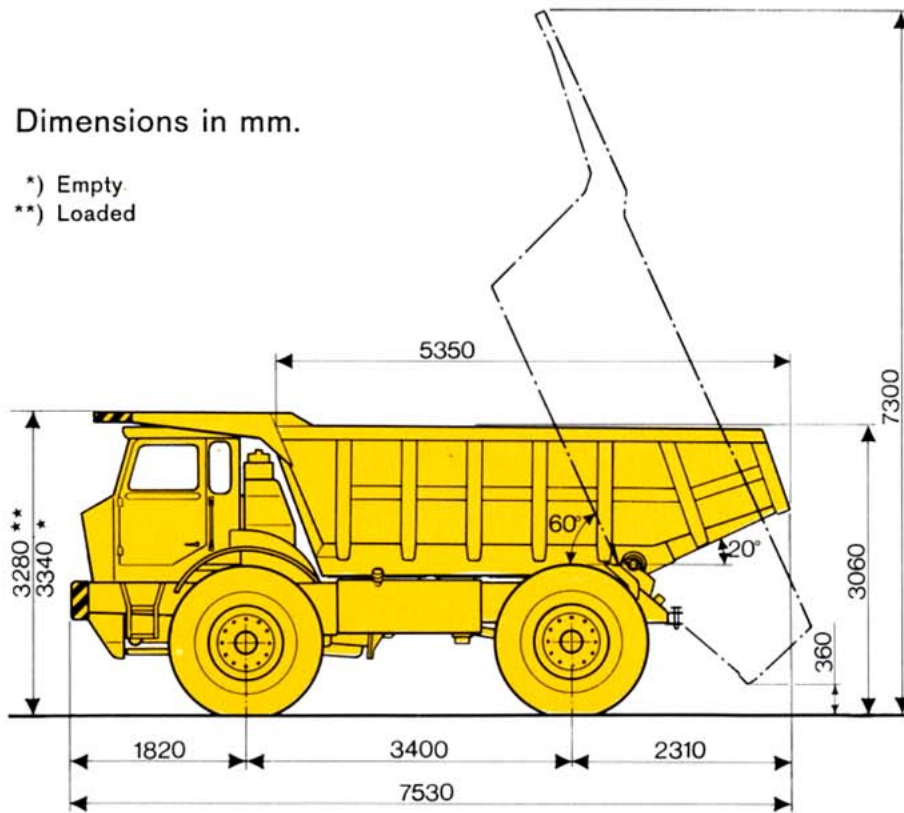
## PAYLOAD CAPACITY

Payload .....	35 tons (32.000 kg)	
Payload volume, struck (SAE) .....	16.4 m <sup>3</sup>	21.5 cu.yd.
heaped 2:1 .....	20.6 m <sup>3</sup>	26.9 cu.yd.
heaped 1:1 .....	24.8 m <sup>3</sup>	32.5 cu.yd.

WEIGHT DISTRIBUTION		Front axle	Rear axle	Total
Empty	lb .....	23,350	26,200	49,550
	kg .....	10,600	11,900	22,500
Loaded	lb .....	35,700	84,350	120,050
	kg .....	16,200	38,300	54,500

Dimensions in mm.

- \*) Empty
- \*\*) Loaded



## Engine

Type	Scania DS 14 (V8) 8-cylinder, four-stroke direct injection diesel engine with turbo-charger
Max. output	306 kW (416 hp) SAE at 2100 rpm
Max. torque	1575 Nm (161 kpm) at 1400 rpm
Bore	127 mm
Displacement	14,2 dm <sup>3</sup> (litres)
Compression ratio	15.5

## Volumes in dm<sup>3</sup> (litres)

Engine lub. system	25
cooling system	110
Gearbox	55
Hydraulic system	110
Rear axle	47
Fuel tank	415

<b>Converter — gear box</b>	Allison CLBT-754
	Automatic gear box
Type	Converter with "lock-up" Retarder

Torque conversion	Max.	2,7
Ratios	1	5,18
	2	3,19
	3	2,07
	4	1,40
	5	1,00
	Reverse	9,45

## Rear axle

Type	Fully floating drive shafts. Final reduction in differential and wheel hubs (planetary gears)
Reduction	Total 11.86:1

## Front axle

Type	Forged I-section. Carried on leaf springs and reaction rods. Hydraulic shock absorbers and rubber bumpers.
------	---

## Wheels

Rims	13.00—25
Tyres	18.00—25/32 PR

## Brakes

Service brakes, 1	Dual-circuit compressed air actuated drum brakes
Service brakes, 2	Hydrodynamic brake (retarder), incorporated in gear box. Max. braking power 295 kW (401 hp)
Parking brake	Separate pneumatically controlled rear wheel brake, spring-loaded. Spring action directly on rear wheels

## Steering

Type	Hydraulic power steering with mechanical return system
Pump	Gear type, direct-driven from the engine
Steering wheel turns, lock to lock	4

## Hoist

Pump	Gear type, direct-driven from the engine
Hoisting cylinder	3-stage, double-acting telescopic cylinder
Dumping angle	60°
Dumping time	10 seconds

## Electrical system

Voltage	24 V
Batteries	Two 12 V batteries, total 150 Ah
Alternator	35 A
Starter	4,8 kW (6,5 hp)
Lights	Headlights with full and dipped beam Curve and fog lights Parking light Direction indicators Brake lights Tail lights Signal light for reversing Reversing lights Cab light Instrument lights Hazard flashers

## Frame

Type	Welded I-section with reinforcing cross members
------	---

## Body

Type	All-welded construction with wrap-around ribs. Exhaust-heated
Sides and front	Wear plate of toughened 10 mm steel Hardness 360 Brinell. Yield strength 110 kp/mm <sup>2</sup>
Bottom	Wear plate of toughened 20 mm steel. Hardness 360 Brinell. Yield strength 110 kp/mm <sup>2</sup>
Weight	6.750 kg

## Cab

Type	All-steel cab. Heat and sound insulated Heater and defroster equipment Adjustable driver's seat
------	---

## Other standard equipment

Instruments	Speedometer / Odometer Revolution counter / Hour counter Oil pressure gauge, engine Coolant temperature gauge Oil temperature gauge, gearbox Oil pressure gauge, gearbox Voltmeter
Control lamps	Hazard flashers Parking brake Full beam Direction indicators Battery charging Engine oil pressure Dump body and hoisting hydraulics
Miscellaneous	Cold starting device Windscreen washer Windscreen wipers Horn Buzzer for air pressure Sun visor Hand throttle Compressed air outlet Electrical engine heater Rock ejectors, rear wheels External rear-view mirrors

## Optional equipment

Body rubber lining
Spare wheel
Tachograph
Emergency steering

## Operating data

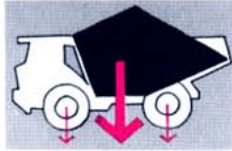
Operating speed	Max. 57 km/h (35,4 mph)
Minimum turning radius	7,600 mm (24' 11")
Minimum swept radius	8,600 mm (28' 2")

Dimensions and weights to tolerances of  $\pm 3\%$ .  
Specifications subject to change without notice.

# KOCKUMS DUMP TRUCKS — BASIC PRINCIPLES OF DESIGN

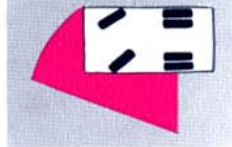
## LOW TARE WEIGHT = LOWER OPERATING COSTS

- Less unusable tonnage to haul



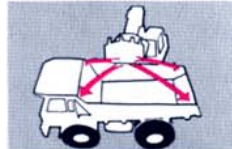
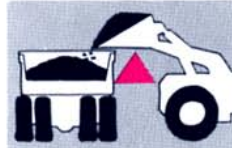
## COMPACT DESIGN = WIDE RANGE OF APPLICATIONS

- Reduced overall width
- Short swept radius



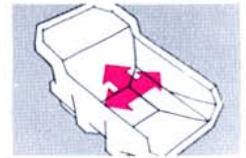
## EFFICIENT PERFORMANCE = MORE WORK PER HOUR

- Low loading height
- One-point loading
- Fast tipping, high tipping angle



## ROBUST DUMP BODY DESIGN = LOW MAINTENANCE COSTS

- High quality steel even in front and sides



- Load-adapted design



- Rock body standard



## FUNCTIONAL CAB = EFFICIENT DRIVERS

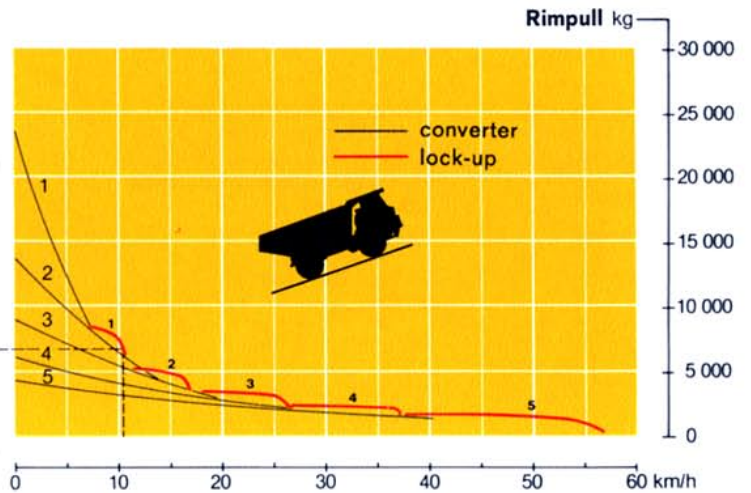
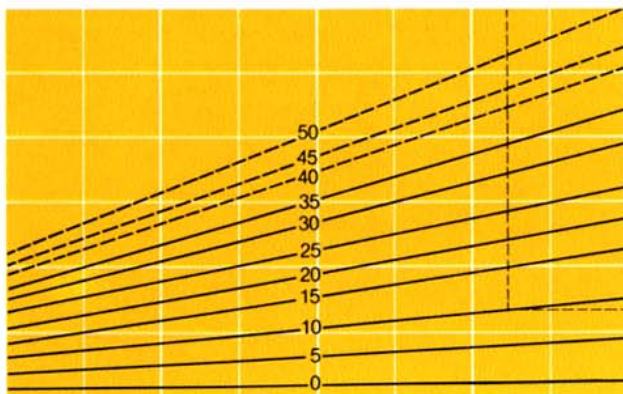
- Low noise-level
- Driver's seat far forward
- Complete instrumentation



## Gradeability — Speed — Rimpull

Payload kg. Ex. 32.000 kg, 10 % grade.

1000 10' 20' 30' 40'



Grade %

Speed

The values include a rolling resistance of 2 %.

**VOLVO BM**  
VOLVO BM AB ESKILSTUNA SWEDEN

Ref.No. 21 1 669 1632  
ENGELSKA